

LISTING OF THE CLAIMS

**CLAIMS**

1. (Currently amended) 1. A service interaction method for comprising a user ~~to interact~~  
interacting with at least one remote service accessible through a home data distribution network,  
said home data distribution network comprising an aggregation of at least one communications  
media and at least one communications protocol used to access said at least one remote service  
from a serving entity, the step of interacting comprising:
- employing only one of a cellular voice network and a PSTN, said user connecting to a serving  
entity attached to said home data distribution network using a client device attached to a wireless,  
circuit-switched, voice telephony network,
- obtaining and viewing a list of at least one remote service from accessible remote services from  
said serving entity accessible remotely via said home network from said serving entity using at  
least one of said communications media and one of said communications protocols;
- selecting said at least one remote service from said list;
- selecting said at least one communications media and at least one communications protocol that  
said selected at least one service uses; and
- accessing and viewing said at least one remote service in obtaining desired results.
2. (original) A method as recited in claim 1, wherein the client device is portable.
3. (currently amended) A method as recited in claim 1,

- 1     wherein the client device is a cellular telephone;
- 2     wherein the step of connecting includes dialing-up directly to the serving entity;
- 3     wherein the step of viewing is performed employing a viewing device collocated with said client  
4     device;
- 5     wherein the viewing device depicts information in a form including at least one of: text, graphics,  
6     images, light display, voice or any combination of these;
- 7     wherein the step of selecting includes employing a menu;
- 8     wherein the step of viewing is performed employing a web-browser and the serving entity is a  
9     web-server;
- 10    wherein the step of connecting includes dialing-up to the serving entity through a data network to  
11    which the serving entity is connected;
- 12    wherein the data network is the Intranet controlled by an Internet Service Provider;
- 13    wherein the data network uses the TCP/IP protocol suite for transporting information;
- 14    wherein said wireless, circuit-switched, voice telephony network is a first generation, analog,  
15    cellular network;
- 16    wherein said wireless, circuit-switched, voice telephony network is a second generation, digital,  
17    cellular network;
- 18    wherein the step of dialing-up directly to the service entity further includes passing dialing  
19    signaling and control data to the serving entity through an intermediary data network;

1 wherein the step of dialing-up to the serving entity through a data network, further includes  
2 dialing-up to the serving entity through a sequence of at least one data network, the last one of  
3 which the serving entity is attached to;

4 wherein at least one of said at least one service agent is a computer software module executable  
5 on a computer; and

6 wherein the step of viewing views the list on a viewing device in a manner that depends on the  
7 user's access privileges to said at least one remote service, and further comprising:

8 said serving entity employing attributes of said circuit switch network in authenticating  
9 said user, wherein said attributes include a telephone number of said client device, and  
10 wherein said attributes include a telephone number of said serving entity;

11 establishing credentials so that said at least one remote service can be manipulated in a  
12 secure manner on the serving entity;

13 the serving entity providing access to at least one service agent used to access and control  
14 said at least one remote service;

15 activating said software module prior to invoking a particular remote service;

16 activating said software module on demand after a particular remote service has been  
17 invoked;

18 storing said software module at a data repository; and

19 dynamically retrieving and activating said software module from the data repository after  
20 invoking a particular remote service.

- 1     4. (original) A method as recited in claim 1, wherein the step of connecting includes dialing-up  
2     directly to the serving entity.
- 3     5. (original) A method as recited in claim 1, wherein the step of viewing is performed employing  
4     a viewing device collocated with said client device.
- 5     6. (previously presented) A method as recited in claim 1, wherein the viewing device depicts  
6     information in a form including at least one of: text, graphics, images, light display, voice or any  
7     combination of these.
- 8     7. (original) A method as recited in claim 1, wherein the step of selecting includes employing a  
9     menu.
- 10    8. (original) A method as recited in claim 5, wherein the step of viewing is performed employing  
11    a web-browser and the serving entity is a web-server.
- 12    9. (original) A method as recited in claim 1, wherein the step of connecting includes dialing-up to  
13    the serving entity through a data network to which the serving entity is connected.
- 14    10. (original) A method as recited in claim 9, wherein the data network is the Intranet controlled  
15    by an Internet Service Provider.
- 16    11. (original) A method as recited in claim 9, wherein the data network uses the TCP/IP protocol  
17    suite for transporting information.
- 18    12. (original) A method as recited in claim 1, further comprising said serving entity employing  
19    attributes of said circuit switch network in authenticating said user.

- 1 13. (original) A method as recited in claim 12, wherein said attributes include a telephone  
2 number of said client device.
- 3 14. (original) A method as recited in claim 12, wherein said attributes include a telephone  
4 number of said serving entity.
- 5 15. (original) A method as recited in claim 1, further comprising establishing credentials so that  
6 said at least one remote service can be manipulated in a secure manner on the serving entity.
- 7 16. (original) A method as recited in claim 1, wherein the step of viewing views the list on a  
8 viewing device in a manner that depends on the user's access privileges to said at least one  
9 remote service.
- 10 17. (original) A method as recited in claim 1, further comprising the serving entity providing  
11 access to at least one service agent used to access and control said at least one remote service.
- 12 18. (original) A method as recited in claim 17, wherein at least one of said at least one service  
13 agent is a computer software module executable on a computer.
- 14 19. (original) A method as recited in claim 18, further comprising activating said software  
15 module prior to invoking a particular remote service.
- 16 20. (original) A method as recited in claim 18, further comprising activating said software  
17 module on demand after a particular remote service has been invoked.
- 18 21. (original) A method as recited in claim 18, further comprising storing said software module  
19 at a data repository.
- 20 22. (original) A method as recited in claim 21, further comprising dynamically retrieving and  
21 activating said software module from the data repository after invoking a particular remote  
22 service.

1 23. (original) A method as recited in claim 1, wherein said wireless, circuit-switched, voice  
2 telephony network is a first generation, analog, cellular network.

3 24. (original) A method as recited in claim 1, wherein said wireless, circuit-switched, voice  
4 telephony network is a second generation, digital, cellular network.

5 25. (original) A method as recited in claim 4, wherein the step of dialing-up directly to the  
6 service entity further includes passing dialing signaling and control data to the serving entity  
7 through an intermediary data network.

8 26. (original) A method as recited in claim 9, wherein the step of dialing-up to the serving entity  
9 through a data network, further includes dialing-up to the serving entity through a sequence of at  
10 least one data network, the last one of which the serving entity is attached to.

11 27. (original) An article of manufacture comprising a computer usable medium having computer  
12 readable program code means embodied therein for causing a user to interact with at least one  
13 remote service, the computer readable program code means in said article of manufacture  
14 comprising computer readable program code means for causing a computer to effect the steps of  
15 claim 1.

16 28. (original) A program storage device readable by machine, tangibly embodying a program of  
17 instructions executable by the machine to perform method steps for causing a user to interact  
18 with at least one remote service, said method steps comprising the steps of claim 1.

19 29. (Previously presented) An apparatus for a user to interact with at least one remote service,  
20 comprising:

1 user connecting means for said user connecting to a serving entity using a client device attached  
2 to a wireless, circuit-switched, voice telephony network, said user connecting means employing  
3 only one of a cellular voice network and a PSTN;

4 user viewing means for obtaining and viewing a list of accessible remote services from said  
5 serving entity;

6 second connecting means for attaching said apparatus to a communications medium and using a  
7 communications protocols, taken from an aggregation of communication media and protocols,  
8 through which said at least one remote service can be accessed;

9 user selecting means for selecting said at least one remote service from said list;

10 second selecting means for selecting the communications medium and protocol to access said  
11 selected at least one service; and

12 user access means for accessing and viewing said at least one remote service in obtaining desired  
13 results.

14 30. (original) A computer program product comprising a computer usable medium having  
15 computer readable program code means embodied therein for causing a user to interact with at  
16 least one remote service, the computer readable program code means in said computer program  
17 product comprising computer readable program code means for causing a computer to effect the  
18 functions of claim 28.

19 31. (Currently amended) An apparatus attached on a home network for a user using a client  
20 device attached to a wireless, circuit-switched, voice telephony network, to interact with at least  
21 one service on said home network, said apparatus comprising:

1 a telephone modem to directly receive an incoming call from the client device, and also to  
2 receive and transmit data over a telephone network, said telephone modem having a client port  
3 through which the apparatus attaches to the telephone network, said apparatus being a single  
4 apparatus through which a user with the user client device can establish communication in one  
5 step,

6 said client device employing only one of a cellular voice network and a PSTN;

7 a dial-in service module to implement dial-in logic for the client device;

8 a browser server module for managing data for remote display; and

9 a protocol transport module to implement protocols needed to transport data back and forth  
10 between a browser application in the client device and said browser server module.

11 32. (original) An apparatus as recited in claim 31, wherein said browser server is used to obtain,  
12 organize, and manipulate data received from and data sent to the client device through the  
13 protocol transport module.

14 33. (original) An apparatus as recited in claim 32, wherein said data sent to the client device are  
15 displayed and viewed by the browser application in the client device.

16 34. (previously presented) An apparatus as recited in claim 32, wherein said data sent includes a  
17 list of services that are accessible by the client device.

18 35. (currently amended) An apparatus as recited in claim 31, wherein said data received by the  
19 browser application in the client device include a selection of at least one service the user of the  
20 client device controls and an action to be taken for a selected service, and upon receipt of the  
21 action the browser server interacts with a particular service agent to implement the control logic  
22 for controlling the selected service, wherein a control signal generated by the service agent exits  
23 the apparatus through the client port attachment of the home network.



1 36. (Previously presented) An apparatus as recited in claim 31, wherein said dial-in server  
2 module triggers at least one particular module in the apparatus to process any incoming calls and  
3 requests from the client device.

4 37. (previously presented) An apparatus as recited in claim 31, wherein said dial-in server  
5 module performs user authentication.